

INDEX OF AUTHORS

Alumot, E.	395	Gillooly, M.	331	Mills, W.	331
Baird, G. D.	481	Golenwsky, G.	287	Moir, R. J.	365
Barlet, J.-P.	475	Harduf, Z.	395	Morris, J. G.	411
Bender, D. A.	321	Hewitt, D.	453	Muramatsu, T.	453
Bezwoda, W. R.	331	Hurrell, R. F.	343, 355	O'Dell, B. L.	441
Bielorai, R.	395	Huszar, G.	287	Partridge, G. G.	507
Bothwell, T. H.	331	Iosif, B.	395	Preedy, V. R.	517
Braithwaite, G. D.	475	Johnson, I. T.	303	Pullar, J. D.	507
Charlton, R. W.	331	Katz, H. B.	497	Reeves, P. G.	441
Coates, M. E.	453	Kennelly, J. J.	463	Rogers, Q. R.	411
Davis, E.	287	Knight, R.	419, 433	Salter, D. N.	453
Derman, D. P.	331	Lamb, C. S.	373	Sautier, C.	313
Dieng, K.	313	Lemonnier, D.	313	Smalley, K. A.	411
Dixon, R. M.	463	Lomax, M. A.	481	Smart, J. L.	497
Doucet, C.	313	Low, A. G.	401	Smith, R. H.	419
Durand, D.	475	McAllan, A. B.	419, 433	Stephens, D. N.	497
Egan, A. R.	373, 385	McNurlan, M. A.	517	Suquet, J. P.	313
Fairweather-Tait, S. J.	303	MacPhail, A. P.	331	Sutton, J. D.	419, 433
Finot, P. A.	343, 355	MacRae, J. C.	373, 385	Taves, D. R.	295
Flament, C.	313	Magboul, B. I.	321	Torrance, J. D.	331
Ford, J. E.	343, 355	Maiocco, J.	287	Zebrowska, H.	401
Fuller, M. F.	507	Masters, D. G.	365	Zebrowska, T.	401
Garlick, P. J.	453, 517	Mayet, F.	331		
Gee, J. M.	303	Milligan, L. P.	463		

The Proceedings of the Nutrition Society, published by the Cambridge University Press, in part record meetings of the Symposium type, at which experts in a particular field are invited by Council to make contributions on specific parts of it and at which general discussion follows these invited contributions. The contributions will be published *in extenso*; such summaries of the ensuing discussions as circumstances warrant may also be published. The Society also holds scientific meetings at which papers are communicated by members and others on original work carried out by them. It is proposed at present to publish summaries of the papers read at each meeting, each communication being recorded in the Society's *Proceedings* by means of an abstract not exceeding in length 400 words or the equivalent space in print. The *Proceedings* are published three times a year.

The subscription to the *Proceedings* is £48.00 net (US \$125.00 in USA and Canada). Single issues are £18.50 (US \$48.00 in USA and Canada) each; postage extra.

Copying

This journal is registered with the Copyright Clearance Center, 21 Congress Street, Salem, Mass. 01970. Organizations in the USA who are also registered with C.C.C. may therefore copy material (beyond the limits permitted by sections 107 and 108 of the US copyright law) subject to payment to C.C.C. of the per-copy fee of \$05.00. This consent does not extend to multiple copying for promotional or commercial purposes. Code 0007-1145/83/0049-0050 \$05.00.

ISI Tear Service, 3501 Market Street, Philadelphia, Pennsylvania 19104, USA, is authorized to supply single copies of separate articles for private use only.

For all other use, permission should be sought from the Cambridge or New York offices of the Cambridge University Press.

The British Journal of Nutrition

Volume 49 No. 3 May 1983

CONTENTS

Papers of direct relevance to CLINICAL AND HUMAN NUTRITION

HUSZAR GABOR, GOLENWSKY GEORGE, MAIOCCO JOHN & DAVIS EDWARD. Urinary 3-methylhistidine excretion in man: the role of protein-bound and soluble 3-methylhistidine	287
TAVES DONALD R. Dietary intake of fluoride ashed (total fluoride) v. unashed (inorganic fluoride) analysis of individual foods	295
FAIRWEATHER-TAIT SUSAN J., GEE JENNIFER M. & JOHNSON I. T. The influence of cooked kidney beans (<i>Phaseolus vulgaris</i>) on intestinal cell turnover and faecal nitrogen excretion in the rat	303
SAUTIER C., DIENG K., FLAMENT C., DOUCET C., SUQUET J. P. & LEMONNIER D. Effects of whey protein, casein, soya-bean and sunflower proteins on the serum, tissue and faecal steroids in rats	313
MAGBOUL BAHIELDIN I. & BENDER DAVID A. The effects of a dietary excess of leucine on the synthesis of nicotinamide nucleotides in the rat	321
GILLOOLY M., BOTHWELL T. H., TORRANCE J. D., MACPHAIL A. P., DERMAN D. P., BEZWODA W. R., MILLS W., CHARLTON R. W. & MAYET FATIMA. The effects of organic acids, phytates and polyphenols on the absorption of iron from vegetables	331
HURRELL R. F., FINOT P. A. & FORD J. E. Storage of milk powders under adverse conditions. 1. Losses of lysine and of other essential amino acids as determined by chemical and microbiological methods	343
FORD J. E., HURRELL R. F. & FINOT P. A. Storage of milk powders under adverse conditions. 2. Influence on the content of water-soluble vitamins	355

Paper on GENERAL NUTRITION

MASTERS DAVID G. & MOIR R. J. Effect of zinc deficiency on the pregnant ewe and developing foetus	365
EGAN A. R., MACRAE J. C. & LAMB C. S. Threonine metabolism in sheep. 1. Threonine catabolism and gluconeogenesis in mature Blackface wethers given poor quality hill herbage	373
MACRAE J. C. & EGAN A. R. Threonine metabolism in sheep. 2. Threonine catabolism and gluconeogenesis in pregnant ewes	385
BIELORAI RACHEL, HARDFU Z., IOSIF B. & ALUMOT EUGENIA. Apparent amino acid absorption from feather meal by chicks	395
ZEBROWSKA TERESA, LOW A. G. & ZEBROWSKA HANNA. Studies on gastric digestion of protein and carbohydrate, gastric secretion and exocrine pancreatic secretion in the growing pig	401
SMALLEY KATHERINE A., ROGERS QUINTON R. & MORRIS JAMES G. Methionine requirement of kittens given amino acid diets containing adequate cystine	411
SUTTON J. D., KNIGHT R., McALLAN A. B. & SMITH R. H. Digestion and synthesis in the rumen of sheep given diets supplemented with free and protected oils	419
McALLAN A. B., KNIGHT R. & SUTTON J. D. The effect of free and protected oils on the digestion of dietary carbohydrates between the mouth and duodenum of sheep	433
REEVES PHILIP G. & O'DELL BOYD L. The effect of zinc deficiency on glucose metabolism in meal-fed rats	441
MURAMATSU T., COATES M. E., HEWITT D., SALTER D. N. & GARLICK P. J. The influence of the gut microflora on protein synthesis in liver and jejunal mucosa in chicks	453
DIXON R. M., KENNELLY J. J. & MILLIGAN L. P. Kinetics of [¹⁴⁹ Ru]phenanthroline and dysprosium particulate markers in the rumen of steers	463
DURAND D., BRAITHWAITE G. D. & BARLET J.-P. The effect of 1 α -hydroxycholecalciferol on the placental transfer of calcium and phosphate in sheep	475
LOMAX M. A. & BAIRD G. D. Blood flow and nutrient exchange across the liver and gut of the dairy cow. Effects of lactation and fasting	481
SMART J. L., STEPHENS D. N. & KATZ H. B. Growth and development of rats artificially reared on a high or a low plane of nutrition	497
PARTRIDGE G. G., FULLER M. F. & PULLAR J. D. Energy and nitrogen metabolism of lactating rabbits	507
PREEDY VICTOR R., McNURLAN MARGARET A. & GARLICK PETER J. Protein synthesis in skin and bone of the young rat	517

© The Nutrition Society 1983

For Index of Authors see inside back cover

CAMBRIDGE UNIVERSITY PRESS

The Pitt Building, Trumpington Street, Cambridge CB2 1RP

32 East 57th Street, New York, N.Y. 10022

Printed in Great Britain at the University Press, Cambridge